Applicant : Strittmatter, S., et al.

Application No. : Not yet assigned

For : NOGO RECEPTOR HOMOLOGS

Attorney : Elinor K. Shin, Reg. No. 43,117, Tel. (212) 596-9000

Docket No.: A116 Filed: Concurrently herewith

Sheet 1 of 6

EXPRESS MAIL ET799720906US

FIG. 1A

OSAZI	0FFH :	01111	01111	ONNA :
50 SCPMLCTCYS GCPRDCVCYP PCPGACVCYN -CPC-CY-	100 TFGSNLLT HFSPAMVT SFRACRNLTI	150 FQGLERLQSL FQGLVKLHAL FHGLGRLHTL F-GLLL	200 DLANLSHLFL DLVNLSHLFL DLGNLTHLFL DL-NL-HLFL	SRLTILYLFN HRLTTLFLFN GRLMTLYLFA -RLL-LF-
LALPLAAP S LAGELPLGG. C LWLQAWQVAA F L	NNLIRTLRPG 1 NNRITFLQQG F GNRISHVPAA S	RHLRSLEPDT F RQLRTLAPET F AQLRSVDPAT F LRP-T F	LLHLQDDLFA I IEYLQDDIFV I LQALPDDTFR I L-DD-F- I	GVHRAAFRGL S WVHHKAFHDL F HVHPHAFRDL C -VHAFL
	PPSTQRLFLQ N PEDSERIFLQ N PAASQRIFLH G PR-FL-	ALEELDLGDN R HLEELDLGDN R LLEQLDLSDN A -LE-LDL-DN -	LQYLYLQENS L LQYLYLQDNH I LQYLYLQDNA L LQYLYLQ-N-	RLLLHGNRLQ G RLLLHENQLQ W RLLLHQNRVA H RLLLH-N
LRRLLQAPAS ACLLLML QSPVQAAQVS GCCVELLLLL ~~~~MKRAS AGGSRLLAWV	NNFSSVPLSL F HNFAAIPEGI F QGLQAVPVGI F	IYPGTFRHLO A IAPNTFEGFV H IDAAAFTGLA I	PGNIFRGLVS I PAGIFGGLHS I GPGLFRGLAA I	HVFRCLGSLD F GIFRGLVNLD F RAFRGLHSLD F FRGLLD F
MSWQSGTTVT (51 SP. PTVSCQA 1 AP. MTVSCQA 1 EPKVTTSCPQ (101 LWLFSNNLST LWIYSNNITF LWLHSNVLAR LWSN	151 HLYRCQLSSL 1 YLYKCGLSAL 1 HLDRCGLQEL (-LC-LL	201 HGNRLRLLTE 1 HGNKLWSLGQ (HGNRISSVPE 1 HGN
NOGO-R2 NOGO-R3 NOGO-R1 Consensus	NOGO-R2 NOGO-R3 NOGO-R1 Consensus	NOGO-R2 NOGO-R3 NOGO-R1 Consensus	NOGO-R2 NOGO-R3 NOGO-R1 Consensus	NOGO-R2 NOGO-R3 NOGO-R1 Consensus

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Docket No.: A116 Filed: Concurrently herewith

Sheet 2 of 6

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300 QRARVSSSDV RRFRGSSSAV QKFRGSSSEV	350 DEEPLGLPKC	400 TLYRDLPA YKKAGKNCTS PRHI.NDSPF	450 QRGEQMCPGA KRKGKCARRT NRTRSHCRLG	
QR/ RRI QKI		. TL YKKA PRHI		491 ~ ~ ~ P C
CRARPLWAWF CRARSLWEWL CRARPLWAWL CRAR-LW-W-	AAPTRPGSRA VSPHQIKSHT YHPIWTGRAT P	AGAPPADPS. HGHPPGSRSG GDSPPGNGSG PPS-	SFDIMPTARP PRRRPGCSRK	HL~~~~~~~ TLR~~~~~~ ALVLWTVLG -L~~~~~~
RLNANPWACD RLNGNAWDCG RLNDNPWVCD RLN-N-W-C-	FQACP.P / FRNCTGP / LQGCAVATGP /	G.VAE G.ASRDKGHP GNALKGRVPP G	DYWGGY DYAPDYQHKF PPGFPTSG	LLCLLLLVPH LLAWILGLAV LTCSLTPLGL
LADLPSLEFL LAPLVALEFL LAPLRALQYL LA-LL	RDLRALREAD QDLKLLRVED RDLKRLAAND -DLLD	SSSNH.LY (QGGDAPTE.D SSGKELTELQ LTAVRPEGSE	PALSAGLPSP ASSGTALGAP DSEGSGALPS
251 NSLASLPGEA NSLTELQGDC NNLSALPTEA N-LL	301 TCATPPERQG PCATPELRQG PCSLPQRLAG -CPG	351 RGN LTTSDRAA CQPDAADKAS	401 EDSRGR HRNRNQISKV GTL.PGSAEPP	451 ACQAPPDSRG PIRAPSGVQQ QAGSGGGGTG
2 3 1 sus	2 3 1 sus	2 3 1 5us	2 3 1 sus	2 3 1 sus
NOGO-R2 NOGO-R3 NOGO-R1 Consensus	NOGO-R2 NOGO-R3 NOGO-R1 Consensus	NOGO-R2 NOGO-R3 NOGO-R1 Consensus	NOGO-R2 NOGO-R3 NOGO-R1 Consensus	NOGO-R2 NOGO-R3 NOGO-R1 Consensus

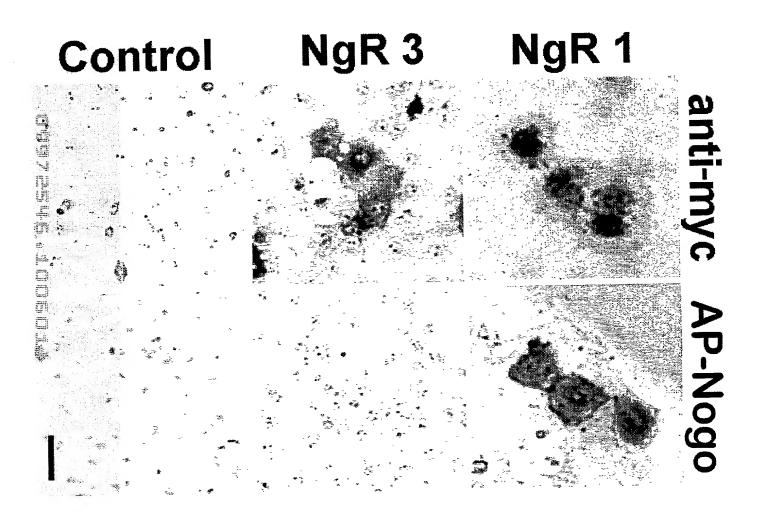
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Docket No.: A116 Filed: Concurrently herewith

Sheet 3 of 6

3/6 FIG. 2



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Docket No.: A116 Filed: Concurrently herewith

--L-D--F-D

QYLYLQ-N--

Consensus

Sheet 4 of 6

QYLYLQDNHI EYLQDDIFVD QYLYLQDNHI EYLQDDIFVD

FIG. 3, cont.

LRR

LRR (

GNRISSVPER AFRGLHSLDR LLLHQNRVAH VHPHAFRDLG RLMTLYLFAN RLMTLYLFAN RLTTLFLFIN RLTTLFLFIN LLLHGNRLQG VHRAAFRGLS VHPHAFRDLG VHHKAFHDLR VHHKAFHDLH LLLHENQLQW LLLHQNHVAR LLLHENQLQW AFRGIHSLDR GNKLWSLGOG IFRGLYNLDR TFRGLUNLDR GNRIPSVPEH GNKLWSLGPG

Human NOGO-R3

NOGO-R3

NOGO-R1

Human

NOGO-R1

Murine Murine

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RL---LF-N RLTILYLFIN VH--AF--L-LLLH-N----GNRLRLLTEH VFRGLGSLDR -FRGL--LDR GN---Consensus Human NOGO-R2

LRR CT LRR8

NISMIPARVI MPIRSLOYLR INDNPWVCDC RARPIWAWIO KFRGSSSEVP NLSALPTEAL APLRALOYLR LNDNPWVCDC RARPIWAWIO KFRGSSEVP LNGNAWDCGC RARSIMENDR RERGSSSAVP SLTELOGOCL APLVALEFLR

RARSLWEWLO RERGSSSAVP RARPLWAWFO RARVSSEDVT LNANPWACDC SLSELOGECL APLGALEFIR INGNPWDCGC SLASLPGEAL ADLPSLEFLR

Human NOGO-R3

Human NOGO-R1 Murine NOGO-R1 Murine NOGO-R3

-- R-SSS-V-LN-N-W-C-C RAR-LW-W-The The Town The The The The The 301 Consensus Human NOGO-R2

CSLPORLAGR DIKKLAANDL OGGAVATGPY HPIWTGRATD EEPLGLPKCC EELLSLPKCC SDRAARKEHH TDRAARKEHH HQIKSHTLTT RPIQTSOLTD HOIKSHTLTT EGCAVASGPF CATPELROGO DIKULLRVEDE RNCTGPVSP. CNLPORLADR DLKRLAASDL Human NOGO-R1 Murine NOGO-R1 Murine NOGO-R3 Human NOGO-R3

CATPPEROGR T Human NOGO-R2 Consensus

.KPGKNCTNP RNRNQISKAG QPDAADKASV LEPGRPASAG NALKGRVPPG DSPPGNGSGP RHINDSPFGT LEPGRPASAG NALKGRVPPG DTPPGNGSGP . KAGKNCTSH SGYK.... PGHR.... HPHGHPPGSR HPH....GPR PSHGASRDKG OPDAADKASV SPHGPTRSKG 351 Human NOGO-R2 Human NOGO-R1 NOGO-R1 Murine NOGO-R3 Human NOGO-R3 Murine

.DLPA.... TLYR.... AP...PADPS . LYGVA. EAG

Consensus

RNRNQISKVS

RHINDSPFGT

Sheet 5 of 6

.. RGNSSSNH

TRPGSRA...

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Sheet 6 of 6

450	RTRSHCRLGQ	RTRSHCRLGQ	PIRAPSGVQQ	PIRAPSGVQQ	ACQAPPD	1 1 1 5 1 5 1 5 1 7 1 7 1 7 1							
	LPGSAEPPLT AVRPEGSEPP GFPTSGP RRRPGCSRKN RIRSHCRLGQ	LPSSAEPPLT ALRPGGSEPP GLPTTGP RRRPGCSRKN RTRSHCRLGQ	SGKELTELQ DYAPDYQHKF SFDIMPTARP KRKGKCARRT PIRAPSGVQQ	.AGKQAPELP DYAPDYQHKF SFDIMPTARP KRKGKCARRT PIRAPSGVQQ	.QGGDAPTED DYWGGYGGED QRGEQMCPGA ACQAPPD	- X X	ls 490	AGSGGGGTGD SEGSGALPSL TCSLTPLGLA LYLWITVIGPC	AGSGASGIGD AEGSGALPAL ACSLAPIGLA LVLWTVLGPC	ASSGTALG APLIAWILGE AVTLR	ASSASSIG ASLIAWTIGE AVTER	SRGPALSA GLPS PLICE LILIVPHHL	
	GFPTSGP	GLPTTGP	SFDIMPTARP	SFDIMPTARP	GGED	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Putative GPI Signals	TCSLTPLGLA	ACSLAPLGLA	APLIAMILGL	ASLLAWTLGL	GLPS PLLCL	
	AVRPEGSEPP	ALRPGGSEPP	DYAPDYQHKF	DYAPDYQHKF	DYWGGY	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Pu	SEGSGALPSL	AEGSGALPAL	ASSGTALG	ASSASSLG	SRGPALSA	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
401	LPGSAEPPLT	LPSSAEPPLT	.SGKELTELQ	. AGKQAPELP	. QGGDAPTED		451	AGSGGGGTGD	AGSGASGTGD			•	1 1 1 1 1 1 1 1 1 1
	Human NOGO-R1	Murine NOGO-R1	Murine NOGO-R3	Human NOGO-R3	Human NOGO-R2	Consensus		Human NOGO-R1	Murine NOGO-R1	Murine NOGO-R3	Human NOGO-R3	Human NOGO-R2	Consensus